Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_\_\_\_

**2.1A NOTES – Congruent Figures**

*Objective: Name corresponding angles and sides of congruent figures. Identify congruent figures. Use congruency marks. CCSS: Preparing for 8.G.2*

*HW: (2.1) p. 46 #4 - 9, 11, 12, 15 (copy the figures in #6 – 9)*

|  |  |  |  |
| --- | --- | --- | --- |
| **Identifying Congruent Figures**  Two figures are congruent when \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ are congruent. Triangle ABC is congruent to Triangle DEF.     |  |  |  | | --- | --- | --- | | Image result for Congruent triangles | Corresponding Angles | Corresponding Sides |   You cannot assume two shapes are congruent if there are no \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |

|  |  |  |  |
| --- | --- | --- | --- |
| ***2.1, Ex. 1. The figures are congruent. Name the corresponding angles and corresponding sides.***   |  |  |  | | --- | --- | --- | |  | ***Corresponding Angles*** | ***Corresponding Sides*** | |

|  |  |
| --- | --- |
| ***2.1, Ex.2.***  ***Tell whether the two figures are congruent. Explain your reasoning.*** | ***2.1, Ex. 3*** |

**BACK 🡪**

**ON YOUR OWN**

|  |  |
| --- | --- |
| 1. Use Congruency marks to show the 2 pentagons are congruent. | 1. Trapezoids ABCD & EFGH are congruent.      1. What is the length of FG? 2. What is the perimeter of Trapezoid EFGH? |

|  |
| --- |
| 1. Are these figures congruent? How do you know? EXPLAIN 2. b) |
| 1. Two figures are congruent. Answer the following problems. |

**­**

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table# \_\_\_\_ Period \_\_\_ **Exit Slip (2.1)**

1. Draw a triangle.
2. Draw a second triangle that is congruent to it.
3. Mark the **corresponding sides** and **corresponding angles** of the congruent figures.